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virtue that the clamping force of the slits 45 is strong, an evident effect of positioning can thus be formed, e.g., opening and closing positions can be formed on an LCD screen plate on a DV camera. The connecting legs 70 each has on its outer end a connecting portion 73 for assembling with the screen plate, reference can be made to the prior art.

After assembling of the present invention, as is shown in FIG. 1, the rotation seat 40 can be rotated about a vertical axis L1 relatively to the fixing plate 10 (shown by an arrow G1 in FIG. 1), and the connecting legs 70 can be rotated about a horizontal axis L2 (shown by an arrow G2 in FIG. 1).

The main improvements of the present invention are resided in the following three points:

- 1) The shafts 71 of the connecting legs 70 are formed therein the surfaces 72 for positioning to cooperate with the planes 46 on the resilient sleeves 44 of the rotation seat 40, thereby the holding capability of the connecting legs 70 is increased, and hence evidently a better positioning effect can be obtained. And more, each of the planes 46 on the resilient sleeves 44 is provided to make one of the two slits 45 at its middle, the effect of locking and the resiliency for the connecting legs 70 are both good, and the effect of closely fitting is good too.
- 2) The spring washers 50 are pressed by the nuts 60, thereby the twisting force on the rotation seat can be adjusted to increase the superiority of production of the entire hinge, and the twisting force can be adjusted to any of desired magnitudes for various electronic equipment.
- 3) There is another important point of the present invention, i.e., the hole 11 of the fixing plate 10 is cut to form the four notches 12, this can increase the areas of force bearing of the four protrusions 21 on the bottom of a rotation shaft 20 to thereby prolong the life of the present invention.

Further, as shown in FIGS. 4 to 6, the resilient sleeves 44 provided on the two ends of the rotation seat 40 of the present invention each can be provided on its lateral side with a slit 45 extending in parallel with the axial direction, a strip 47 protruding inwards is provided above the slit 45. And more, the shaft 71 of the connecting legs 70 is provided with two recesses 74 angularly spaced for 90 degrees, by engaging of either of the recesses 74 with the strip 47 during each of the connecting legs 70 is rotated to an opening or a closing positions respectively at 0° and 90°, the recess 74 on its corresponding shaft 71 is engaged by the strip 47 to get a positioning effect. This design makes another embodiment of the present invention which renders the positioning effect better than the former embodiment having the design of the planes 46.

In conclusion, the present invention surely can get the improvement on the conventional hinge with substantial effect; therefore, what we claim as new and desire to be secured by Letters Patent of the United States is:

1. A hinge rotative on two mutual orthogonal axes comprising:
  - a fixing plate for connecting with a main body of a set of electronic equipment;
  - a rotation shaft assembled with and on said fixing plate, having on its upper end a threaded portion;
  - a position limiting sheet assembled on said rotation shaft and having a stop section;
  - a rotation seat extended therethrough by said rotation shaft, having a plurality of protrusions on a bottom of said rotation seat to contact with said stop section for limiting swiveling range of said rotation seat; said rotation seat having two resilient sleeves extending to two mutually opposite sides;

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spring washers provided on said rotation seat to press said rotation seat during rotating;

a nut provided above said spring washers and connected with said threaded portion on said upper end of said rotation shaft;

two connecting legs each having a connecting portion and a shaft, at least two planar surfaces being spaced 90 degrees on said shaft, said shaft rotatably connected to one of said resilient sleeves;

said hinge is characterized in that: said resilient sleeves of said rotation seat each is provided on its top with two slits, a plane is provided on an interior of each of said resilient sleeves such that one of said two slits is disposed at the middle of said plane; when either of said surfaces spaced 90 degrees on said shaft is contacted with said plane on said resilient sleeve, holding force is increased, and hence evidently better positioning effect is obtained.

2. The hinge rotative on two mutual orthogonal axes as claimed in claim 1, wherein said threaded portion on said upper end of said rotation shaft is locked in said nut for adjusting twisting force on said rotation seat.

3. The hinge rotative on two mutual orthogonal axes as claimed in claim 1, wherein said fixing plate has a central hole which is generally round, a periphery of said central hole has four notches receiving four protrusions extending from the bottom of said rotation shaft.

4. The hinge rotative on two mutual orthogonal axes as claimed in claim 1, wherein a top of said position limiting sheet is formed thereon a plurality of recesses which are mated respectively with said plurality of protrusions on a bottom of said rotation seat to get a positioning effect when said rotation seat is rotated.

5. A hinge rotative on two mutual orthogonal axes comprising:

- a fixing plate for connecting with a main body of a set of electronic equipment;
- a rotation shaft assembled with and on said fixing plate, having on its upper end a threaded portion;
- a position limiting sheet assembled on said rotation shaft and having a stop section;
- a rotation seat extended therethrough by said rotation shaft, having a plurality of protrusions on a bottom of said rotation seat to contact with said stop section for limiting a swiveling range of said rotation seat; said rotation seat having two resilient sleeves extending to two mutually opposite sides;

spring washers provided on said rotation seat to press said rotation seat during rotating;

a nut provided above said spring washers and connected with said threaded portion on said upper end of said rotation shaft;

two connecting legs each having a connecting portion and a shaft, at least two recesses being spaced 90 degrees on said shaft, said shaft rotatably connected to one of said resilient sleeves;

said hinge is characterized in that: said resilient sleeves of said rotation seat each is provided on its lateral side with a slit, a strip protruding inwards is provided adjacent each of said slits, by engaging of either of said recesses with one of said strips, holding force is increased, and hence evidently better positioning effect is obtained.

6. The hinge rotative on two mutual orthogonal axes as claimed in claim 5, wherein said threaded portion on said upper end of said rotation shaft is locked in said nut for adjusting twisting force on said rotation seat.